Task Force Web

Navy Environment WEN CONOPS 13 November 2002

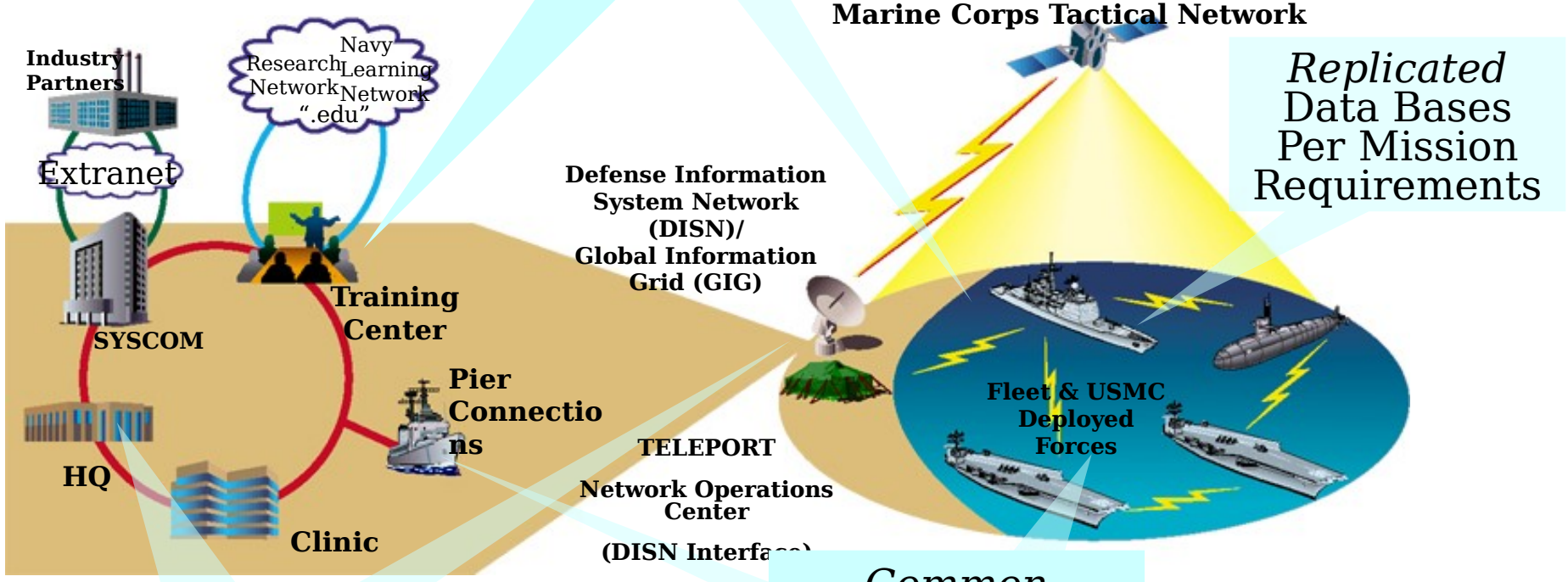
Skip Hiser, CAPT USN

Department of Navy Portals

. . .Too much of a good thing?

Architectural Framework

Accessible
via Business
and
Warfare Operations



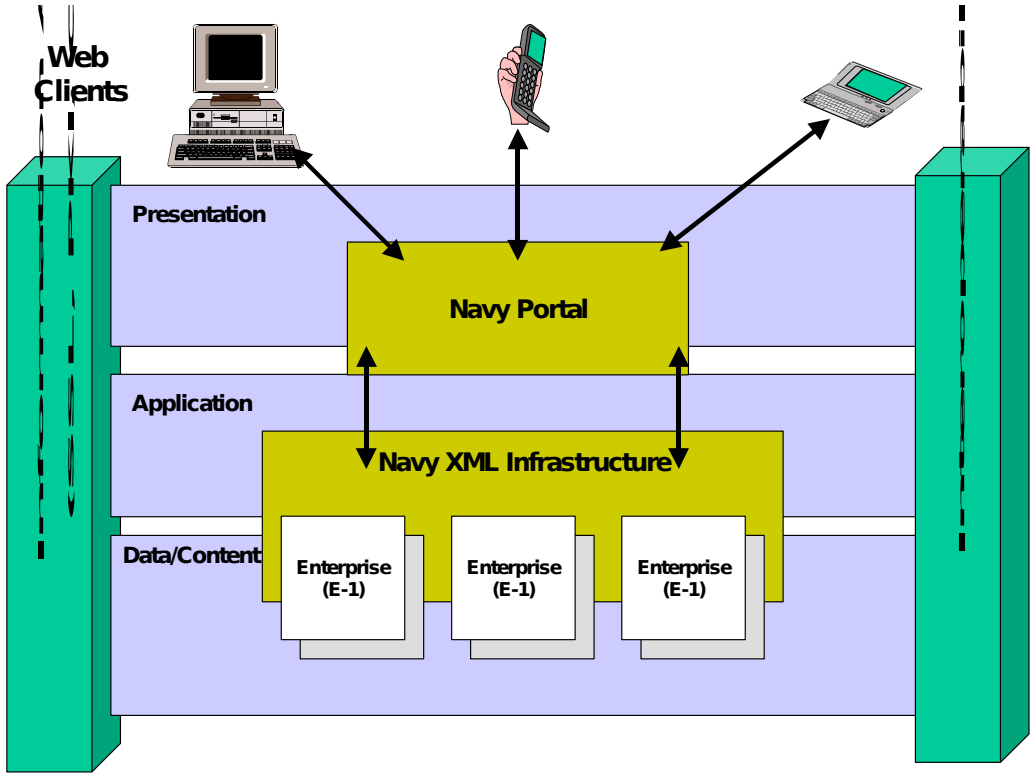
Replicated
Data Bases
Per Mission
Requirements

Authoritative
Data Sources
and
Data *Consolidation*

Common
User Access
Between
Afloat and Shore

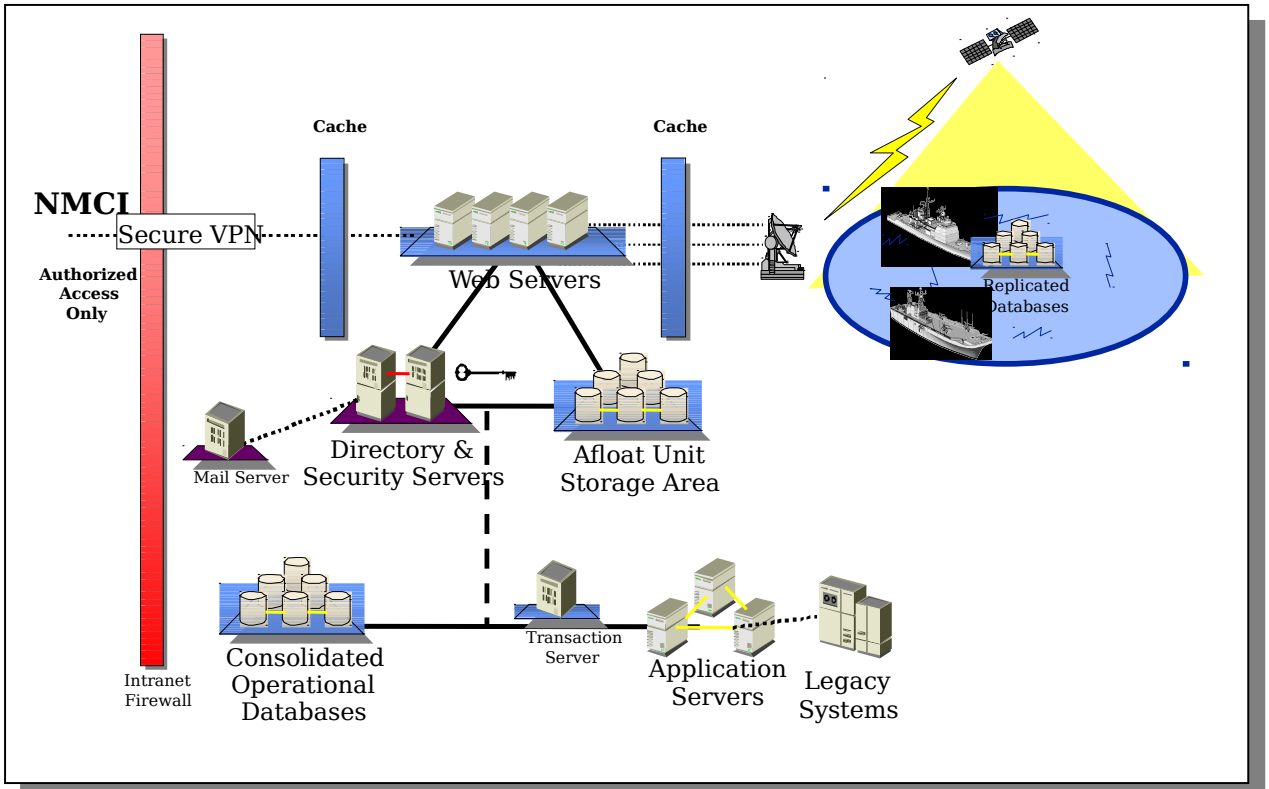
n-Tier Architecture

- **Presentation Layer**
  - **Portal access to web services.**
  - **Display and user device independence.**
- **Application Layer**
  - **Component Based.**
  - **Registered Services.**
- **Content**
  - **Exposed Data.**
- **Information Assurance**
  - **SSO**
  - **PKI / CAC**



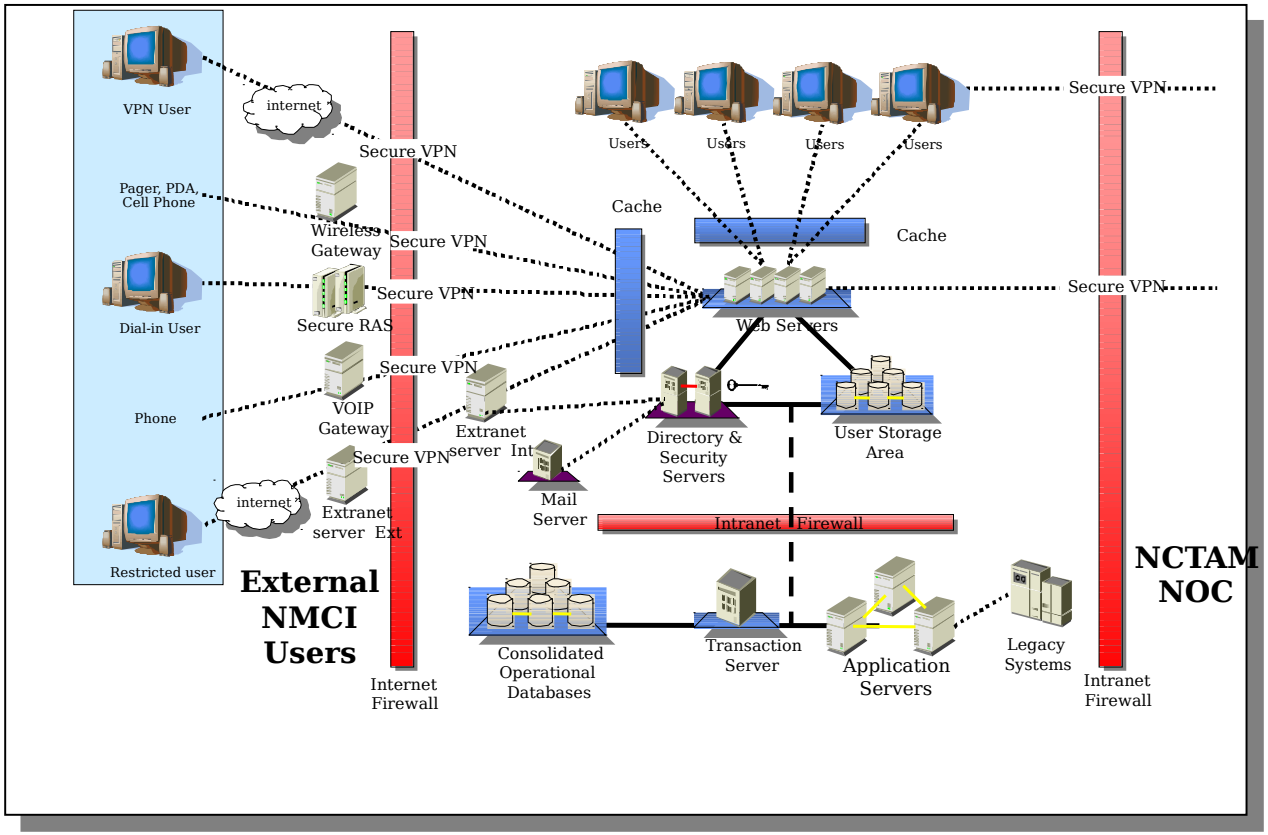
Afloat Environment

- **Bandwidth Constrained.**
- **Replication & Synchronization.**
- **Access Application Servers vice mobile units.**
- **Firewall**
- **Consolidated Services.**



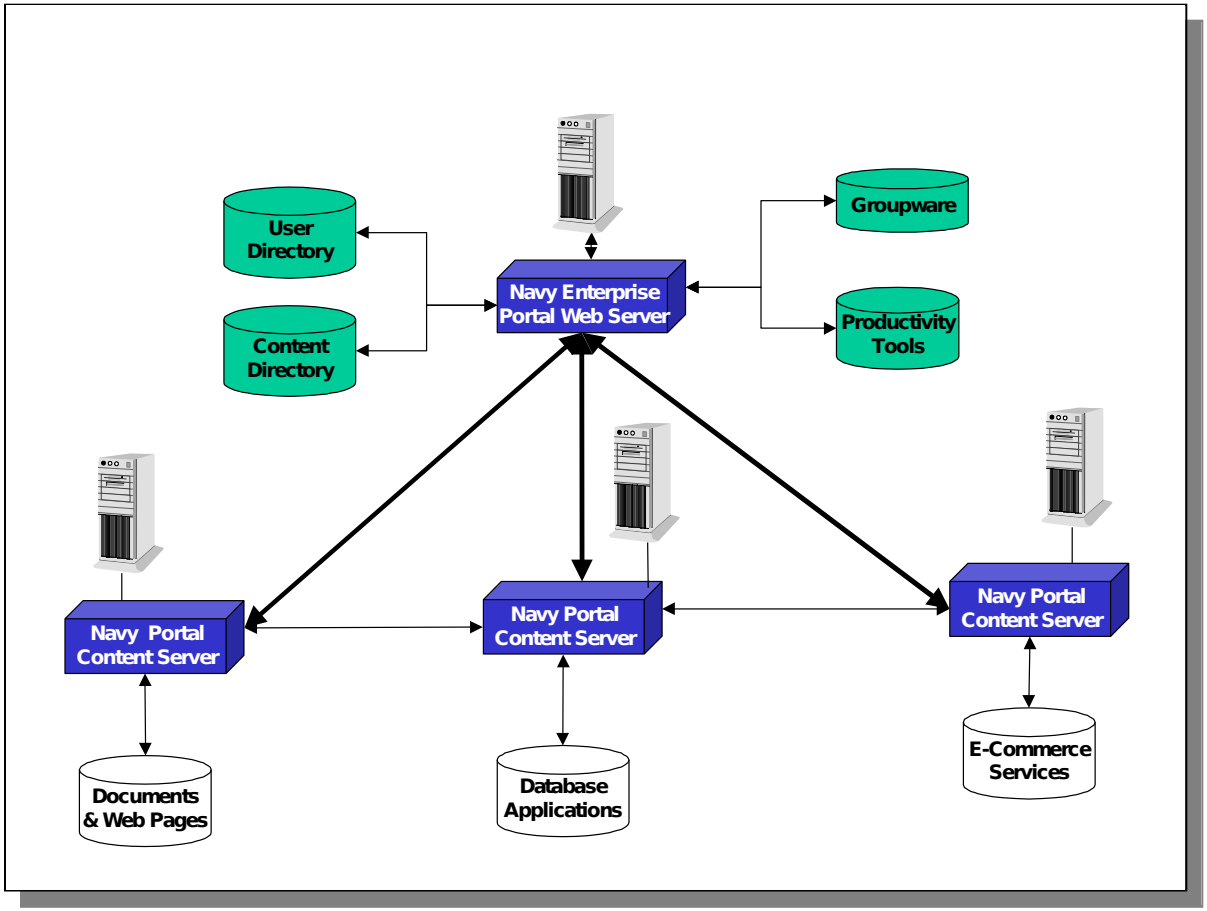
Shore Architecture

- NMCI.
- OCONUS BLII
- Non-NMCI Environment .
- Extranets.
- IT-21 Gateways.



Navy Enterprise Portal

- Content integration through the Portal.
- Global Directory Services.
- Common Look & Feel.
- User customizable.
- Subscribed Services.
- Single Sign-On.



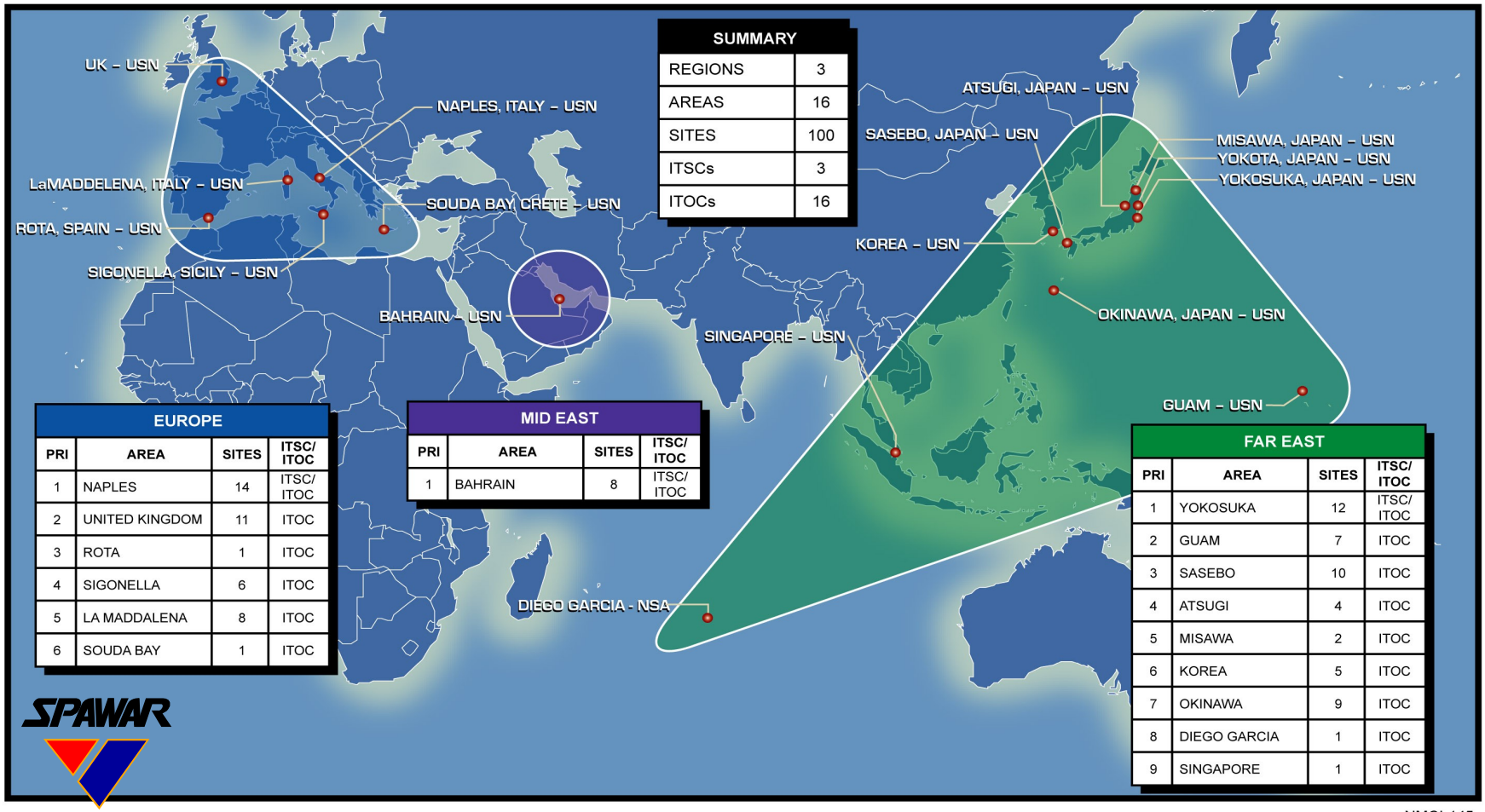
NMCI

- NMCI portal similar to Navy Enterprise Portal (NEP), with two significant differences:
  - Portal has NMCI "branding", not NEP "branding"
  - Only has access to NMCI services, not DON-wide apps/services.
- Anticipate NMCI portal rollout Nov/Dec 2002 with user seat deployment.
- Commander, Fleet Forces Command provides interim shore access to NEP until NMCI provides support to non-NMCI users.

BLII vs NMCI

- NMCI is a seat management contract (outsourcing).
- BLII OCONUS is an infrastructure installation contract.
- Overseas Commanders will continue to operate the network.
- Web Services currently included in contract are limited.

BLII Regional Structure



SUMMARY	
REGIONS	3
AREAS	16
SITES	100
ITSCs	3
ITOCs	16

EUROPE			
PRI	AREA	SITES	ITSC/ ITOC
1	NAPLES	14	ITSC/ ITOC
2	UNITED KINGDOM	11	ITOC
3	ROTA	1	ITOC
4	SIGONELLA	6	ITOC
5	LA MADDALENA	8	ITOC
6	SOUDA BAY	1	ITOC

MID EAST			
PRI	AREA	SITES	ITSC/ ITOC
1	BAHRAIN	8	ITSC/ ITOC

FAR EAST			
PRI	AREA	SITES	ITSC/ ITOC
1	YOKOSUKA	12	ITSC/ ITOC
2	GUAM	7	ITOC
3	SASEBO	10	ITOC
4	ATSUGI	4	ITOC
5	MISAWA	2	ITOC
6	KOREA	5	ITOC
7	OKINAWA	9	ITOC
8	DIEGO GARCIA	1	ITOC
9	SINGAPORE	1	ITOC

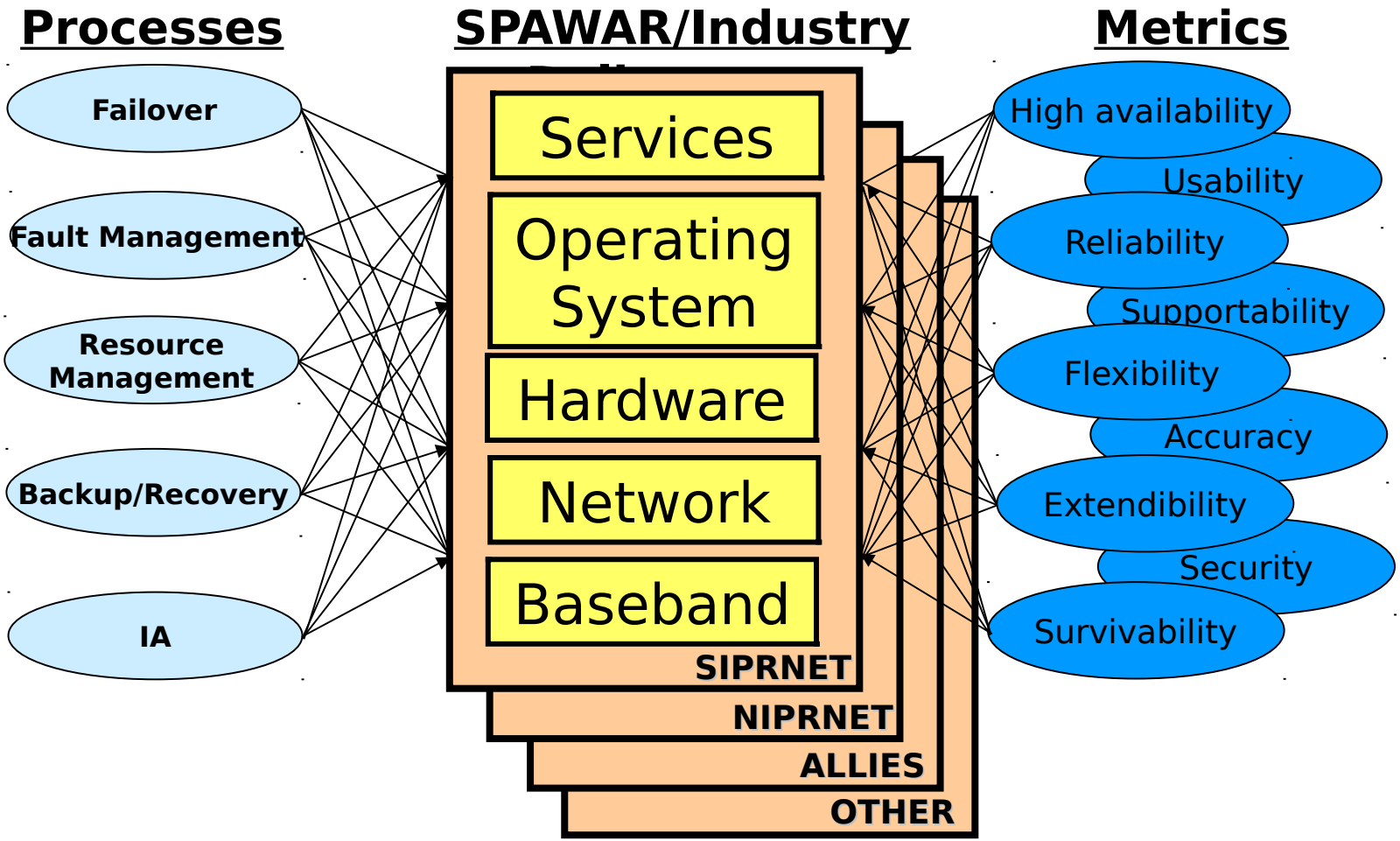
NMCI-145

Information Technology for the 21 Century

Next Generation Network

- An improved enterprise network design afloat that provides:
  - Increased availability
  - Improved supportability
  - Improved performance and scalability
  - Enterprise management capabilities
  - Improved allied and coalition interoperability
  - Combat survivability

Afloat Environment



Network Focus Areas

1. Application Services
   - Establish common services and access as an enterprise utility.
2. Servers, Storage, and Networks
   - Provide a resilient , redundant, scalable, and integrated hardware infrastructure.
3. Resource Management
   - Provide tools for managing the enterprise to include bandwidth, network, hardware, and application management.
4. Allied Coalition Interoperability
   - Share various types of data seamlessly across multiple security enclaves.
5. Communications Services
   - Provide critical network services and improve capacity through tiers of connectivity.
6. Computer Network Defense
   - Provide a robust defense in depth computer network architecture.

NEP Evolution in progress

- UDDI (COTS)
- WSRP
- SAML/Interdomain SSO
- Portal User Profile Replication (Common look & feel)
- Improved Taxonomy Management
- Workplace Configuration Management
- Search Engine / Intelligent Agents
- Collaborative Tools